

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	1014	(liner shield sub\$1chamber inner\$1chamber).clm. and (vacuum hermetic (gas with tight\$3)).clm. and (moved movable moving moveable rais\$4 lower\$4).clm. and (opening passage passageway port).clm.	US-PGPUB; USPAT	OR	ON	2006/12/21 18:53
L6	1094	(liner shield sub\$1chamber inner\$1chamber).clm. and (vacuum hermetic\$4 (gas with tight\$3)).clm. and (moved movable moving moveable rais\$4 lower\$4).clm. and (opening passage passageway port).clm.	US-PGPUB; USPAT	OR	ON	2006/12/21 18:55
L7	334	6 and (substrate wafer semiconductor workpiece)	US-PGPUB; USPAT	OR	ON	2006/12/21 18:54
L8	208	6 and ((substrate wafer semiconductor workpiece) with (transfer\$4 transport\$3 convey\$3 carry\$3 carri\$4))	US-PGPUB; USPAT	OR	ON	2006/12/21 18:57
L9	438	((liner shield sub\$1chamber inner\$1chamber).clm. with (moved movable moving moveable rais\$4 lower\$4).clm.) and (vacuum hermetic\$4 (gas with tight\$3)).clm. and (opening passage passageway port).clm.	US-PGPUB; USPAT	OR	ON	2006/12/21 18:56
L10	68	9 and ((substrate wafer semiconductor workpiece) with (transfer\$4 transport\$3 convey\$3 carry\$3 carri\$4))	US-PGPUB; USPAT	OR	ON	2006/12/21 18:57
L11	4	carpenter-craig.in. dando-ross.in. mardian-allen.in. hamer-kevin.in. cantin-raynald.in. campbell-phillip.in. tschepen-kimberly.in. mercil-randy.in.	US-PGPUB; USPAT	OR	ON	2006/12/21 19:48
L12	187	carpenter-craig-\$.in. dando-ross-\$.in. mardian-allen-\$.in. hamer-kevin-\$.in. cantin-raynald-\$.in. campbell-phillip-\$.in. tschepen-kimberly-\$.in. mercil-randy-\$.in.	US-PGPUB; USPAT	OR	ON	2006/12/21 19:49
S1	2	(204/298.25.ccls. 204/298.35.ccls.) and (plug with load)	US-PGPUB; USPAT	OR	ON	2004/06/28 10:20
S2	4	(204/298.25.ccls. 204/298.35.ccls.) and (plug same (passage\$3 interface insert plate))	US-PGPUB; USPAT	OR	ON	2004/06/28 10:20
S3	534	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and interface	US-PGPUB; USPAT	OR	ON	2004/06/28 10:22
S4	4	((("4949669") or ("6309161") or ("6562141") or ("6638672")). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/28 10:23
S5	3	gochberg.in.	US-PGPUB; USPAT	OR	ON	2004/06/28 10:23
S6	1711	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/15 04:21
S7	436	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and interface	US-PGPUB; USPAT	OR	ON	2004/06/28 10:21
S8	106	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface with transfer\$3)	US-PGPUB; USPAT	OR	ON	2003/05/20 17:27
S9	14	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface with metal\$3)	US-PGPUB; USPAT	OR	ON	2003/05/20 17:30
S10	5630	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface) applied.as.	US-PGPUB; USPAT	OR	ON	2003/05/20 17:31
S11	68	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface)and applied.as.	US-PGPUB; USPAT	OR	ON	2005/11/14 15:13
S12	492	"118"/\$ and (interface)and applied.as.	US-PGPUB; USPAT	OR	ON	2003/05/22 09:28
S13	78	"118"/\$ and (interface with (temperature heat))and applied.as.	US-PGPUB; USPAT	OR	ON	2003/05/20 17:37
S14	0	("9891784").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/20 17:37

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S15	0	(09/891,784).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/20 17:37
S16	1	09/891,784	US-PGPUB; USPAT	OR	ON	2003/05/20 17:37
S17	425	((((118/719) or (414/939) or (156/345.31) or (156/345.32))). CCLS.) and (((transfer\$3 transport\$3) with chamber) same (thermal\$3 isolat\$3 insulat\$3 interfac\$3 metal\$3))	US-PGPUB; USPAT	OR	ON	2003/05/20 17:51
S18	41	(US-6045620-\$ or US-5415729-\$ or US-5266116-\$ or US-5151303-\$ or US-5016561-\$ or US-5002009-\$ or US-5950328-\$ or US-5424039-\$ or US-4243310-\$ or US-4622918-\$ or US-4438724-\$ or US-5031571-\$ or US-4480585-\$ or US-5121705-\$ or US-4459823-\$ or US-6106631-\$ or US-4787844-\$ or US-4427378-\$ or US-4395021-\$ or US-3900282-\$ or US-3759662-\$ or US-3575397-\$ or US-3618919-\$ or US-6503079-\$ or US-6338626-\$ or US-5769629-\$).did. or (US-5693288-\$ or US-5256061-\$ or US-5172849-\$ or US-5103745-\$ or US-4997364-\$ or US-4721424-\$ or US-4692115-\$ or US-3978815-\$ or US-5601686-\$ or US-6313444-\$ or US-5834739-\$ or US-5286296-\$ or US-4951603-\$).did. or (US-20020008534-\$ or US-20020195201-\$).did. or (JP-03045807-\$ or JP-62147726-\$ or JP-01319675-\$).did. or (JP-06093342-\$ or DE-4011079-\$ or JP-05149433-\$ or JP-62050473-\$).did.	US-PGPUB; USPAT	OR	ON	2003/05/21 09:58
S19	9	"4438724".URPN.	USPAT	OR	ON	2003/05/21 10:13
S20	10	"5172849".URPN.	USPAT	OR	ON	2003/05/21 10:45
S21	2	"6045620".URPN.	USPAT	OR	ON	2003/05/21 13:35
S22	19	("4116419" "4257447" "4534389" "4616683" "4674939" "4724874" "4917556" "5020776" "5076205" "5143348" "5286296" "5478195" "5601686" "5640751" "5653565" "5655277" "5695564" "5730801" "5746434").PN.	USPAT	OR	ON	2003/05/21 13:36
S23	1	"5640751".URPN.	USPAT	OR	ON	2003/05/21 13:39
S24	7	("2255504" "2926937" "3208758" "3370508" "4616860" "4685193" "5094795").PN.	USPAT	OR	ON	2003/05/21 13:39
S25	1711	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/21 14:49
S26	34	((((118/719) or (414/939) or (156/345.31) or (156/345.32))). CCLS.) and (interface same insulat\$3)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:57
S27	25	(US-3618919-\$ or US-5382531-\$ or US-5919310-\$ or US-5997588-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5172849-\$ or US-5310338-\$ or US-5266116-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-6045620-\$ or US-6347918-\$ or US-4116419-\$ or US-4257447-\$ or US-4674939-\$ or US-5020776-\$ or US-5143348-\$ or US-5640751-\$ or US-4616860-\$ or US-4685193-\$ or US-5746434-\$).did. or (US-20020195201-\$).did.	US-PGPUB; USPAT	OR	OFF	2003/05/21 15:52
S28	0	((US-3618919-\$ or US-5382531-\$ or US-5919310-\$ or US-5997588-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5172849-\$ or US-5310338-\$ or US-5266116-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-6045620-\$ or US-6347918-\$ or US-4116419-\$ or US-4257447-\$ or US-4674939-\$ or US-5020776-\$ or US-5143348-\$ or US-5640751-\$ or US-4616860-\$ or US-4685193-\$ or US-5746434-\$).did. or (US-20020195201-\$).did.) and gel	US-PGPUB; USPAT	OR	ON	2003/05/21 15:53

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S29	2	((US-3618919-\$ or US-5382531-\$ or US-5919310-\$ or US-5997588-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5172849-\$ or US-5310338-\$ or US-5266116-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-6045620-\$ or US-6347918-\$ or US-4116419-\$ or US-4257447-\$ or US-4674939-\$ or US-5020776-\$ or US-5143348-\$ or US-5640751-\$ or US-4616860-\$ or US-4685193-\$ or US-5746434-\$).did. or (US-20020195201-\$).did.) and (polymer\$3)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:53
S30	5	((US-3618919-\$ or US-5382531-\$ or US-5919310-\$ or US-5997588-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5172849-\$ or US-5310338-\$ or US-5266116-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-6045620-\$ or US-6347918-\$ or US-4116419-\$ or US-4257447-\$ or US-4674939-\$ or US-5020776-\$ or US-5143348-\$ or US-5640751-\$ or US-4616860-\$ or US-4685193-\$ or US-5746434-\$).did. or (US-20020195201-\$).did.) and ceramic	US-PGPUB; USPAT	OR	ON	2003/05/21 15:53
S31	2	((US-3618919-\$ or US-5382531-\$ or US-5919310-\$ or US-5997588-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5172849-\$ or US-5310338-\$ or US-5266116-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-6045620-\$ or US-6347918-\$ or US-4116419-\$ or US-4257447-\$ or US-4674939-\$ or US-5020776-\$ or US-5143348-\$ or US-5640751-\$ or US-4616860-\$ or US-4685193-\$ or US-5746434-\$).did. or (US-20020195201-\$).did.) and (porosity porous pore)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:55
S32	0	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface with ceramic)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:56
S33	8	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface same polymer\$3)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:57
S34	2	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (interface with polymer\$3)	US-PGPUB; USPAT	OR	ON	2003/05/21 15:57
S35	436	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and interface	US-PGPUB; USPAT	OR	ON	2003/05/22 10:27
S36	663	c23c016\$.ipc. and (interfac\$3)	EPO; JPO; DERWENT	OR	ON	2003/05/22 09:29
S37	199	c23c016\$.ipc. and (interfac\$3) and metal\$3	EPO; JPO; DERWENT	OR	ON	2003/05/21 17:07
S38	1	("5640751").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/22 09:08
S39	1	"5640751".URPN.	USPAT	OR	ON	2003/05/22 09:08
S40	1	"5640751".URPN.	USPAT	OR	ON	2003/05/22 09:09
S41	7	("2255504" "2926937" "3208758" "3370508" "4616860" "4685193" "5094795").PN.	USPAT	OR	ON	2003/05/22 09:09
S42	305	"118"/\$.ccls. and (interface)and applied.as.	US-PGPUB; USPAT	OR	ON	2003/05/22 09:28
S43	21	c23c016\$.ipc. and (ceramic with interfac\$3)	EPO; JPO; DERWENT	OR	ON	2003/05/22 10:34
S44	0	"118"/\$.ccls. and (ceramic with interfac\$3)	EPO; JPO; DERWENT	OR	ON	2003/05/22 09:32
S45	43	("118"/\$.ccls. 156/345\$.ccls. "414"/\$.ccls.)and (ceramic with interfac\$3)	US-PGPUB; USPAT	OR	ON	2003/05/22 09:47
S46	0	"6200415".URPN.	USPAT	OR	ON	2003/05/22 09:38
S47	16	("3645460" "3736394" "3881392" "4302136" "4636120" "4995340" "5290010" "5316278" "5374136" "5456757" "5712746" "5810933" "5829933" "5868847" "5913647" "5940273").PN.	USPAT	OR	ON	2003/05/22 09:41

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S48	2	((("3645460" "3736394" "3881392" "4302136" "4636120" "4995340" "5290010" "5316278" "5374136" "5456757" "5712746" "5810933" "5829933" "5868847" "5913647" "5940273").PN.) and ceramic	US-PGPUB; USPAT	OR	ON	2003/05/22 09:42
S49	10	((("3645460" "3736394" "3881392" "4302136" "4636120" "4995340" "5290010" "5316278" "5374136" "5456757" "5712746" "5810933" "5829933" "5868847" "5913647" "5940273").PN.) and metal\$3	US-PGPUB; USPAT	OR	ON	2003/05/22 09:42
S50	7	("4338380" "5011658" "5737178" "5794838" "5886863" "5998041" "6134096").PN.	USPAT	OR	ON	2003/05/22 09:44
S51	4	"6280584".URPN.	USPAT	OR	ON	2003/05/22 09:45
S52	89	("118"/\$.ccls. 156/345.\$.ccls. "414"/\$.ccls.)and (ceramic with insert)	US-PGPUB; USPAT	OR	ON	2003/05/22 09:48
S53	1712	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/22 10:19
S54	9	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (passageway with (metal\$3 steel aluminum))	US-PGPUB; USPAT	OR	ON	2003/05/22 10:21
S55	1	("5746434").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/22 10:31
S56	1	("6045620").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/05/22 10:33
S57	232	metal\$3 with slit with insert	EPO; JPO; DERWENT	OR	ON	2003/05/22 10:46
S58	0	metal\$3 with slit with insert and ("118"/\$.ccls. 156/345.\$.ccls. "414"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/05/22 10:34
S59	0	c23c016\$.ipc. and (metal\$3 with slit with insert)	EPO; JPO; DERWENT	OR	ON	2003/05/22 10:34
S60	0	(metal\$3 with slit with insert) and ("118"/\$.ccls. 156/345.\$.ccls. "414"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2003/05/22 10:35
S61	112	metal\$3 with slit with insert	US-PGPUB; USPAT	OR	ON	2003/05/22 10:36
S62	1	"6089543".URPN.	USPAT	OR	ON	2003/05/22 10:41
S63	12	("3558097" "3764104" "4154426" "4474358" "4682759" "4785962" "4915355" "5226632" "5273071" "5275303" "5363872" "5579718").PN.	USPAT	OR	ON	2003/05/22 10:41
S64	11	(metal\$3 with slit with insert) same (chamber apparatus)	EPO; JPO; DERWENT	OR	ON	2003/05/22 10:48
S65	4	(metal\$3 with slit with insert) same (wafer substrate)	EPO; JPO; DERWENT	OR	ON	2003/05/22 10:48
S66	48231	c23c016\$.ipc.	EPO; JPO; DERWENT	OR	ON	2003/06/11 10:21
S67	58	c23c016\$.ipc. and (interfac\$3 with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:40
S68	11	c23c016\$.ipc. and (insert with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:40
S69	190	c23c016\$.ipc. and ((surface face) with chamber with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:41
S70	1666	((body material) with between with chamber with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:27
S71	43	c23c016\$.ipc. and ((body material) with between with chamber with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:38

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S72	1722	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 11:38
S73	0	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((body material) with between with chamber with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:38
S74	1666	((body material) with between with chamber with (insulat\$3 isolat\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/11 11:38
S75	3122	((body material) with between with chamber with (insulat\$3 isolat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/11 11:38
S76	219	("118"/\$.ccls. 156/345.\$.ccls. "414"/\$.ccls.) and ((body material) with between with chamber with (insulat\$3 isolat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/11 11:39
S77	62	(interfac\$3 with (insulat\$3 isolat\$3)) and (((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.)	US-PGPUB; USPAT	OR	ON	2003/06/11 12:17
S78	12	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (insert with (insulat\$3 isolat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/11 12:24
S79	101	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((surface face) with chamber with (insulat\$3 isolat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/11 14:27
S80	1	("6045260").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 14:27
S81	1	("6045620").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 14:28
S82	1	("6089543").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 14:28
S83	46	(US-6099651-\$ or US-6089543-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-5172849-\$ or US-5266116-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5919310-\$ or US-3618919-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-4674939-\$ or US-4257447-\$ or US-5020776-\$ or US-5143348-\$ or US-4685193-\$ or US-4616860-\$ or US-4116419-\$).did. or (US-3994428-\$ or US-6506254-\$ or US-6263829-\$ or US-6200415-\$ or US-6280584-\$ or US-5456757-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6045620-\$ or US-5016562-\$ or US-3602192-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/11 16:29
S84	0	("4and(gaswithcurtain)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 15:04

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S85	4	((US-6099651-\$ or US-6089543-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-5172849-\$ or US-5266116-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5919310-\$ or US-3618919-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-4674939-\$ or US-4257447-\$ or US-5020776-\$ or US-5143348-\$ or US-4685193-\$ or US-4616860-\$ or US-4116419-\$).did. or (US-3994428-\$ or US-6506254-\$ or US-6263829-\$ or US-6200415-\$ or US-6280584-\$ or US-5456757-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6045620-\$ or US-5016562-\$ or US-3602192-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$).did.) and(gas with curtain)	US-PGPUB; USPAT	OR	ON	2003/06/11 15:04
S86	0	((US-6099651-\$ or US-6089543-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-5415729-\$ or US-5601686-\$ or US-5693288-\$ or US-5172849-\$ or US-5266116-\$ or US-4438724-\$ or US-4480585-\$ or US-4622918-\$ or US-5919310-\$ or US-3618919-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-4674939-\$ or US-4257447-\$ or US-5020776-\$ or US-5143348-\$ or US-4685193-\$ or US-4616860-\$ or US-4116419-\$).did. or (US-3994428-\$ or US-6506254-\$ or US-6263829-\$ or US-6200415-\$ or US-6280584-\$ or US-5456757-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6045620-\$ or US-5016562-\$ or US-3602192-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$).did.) and ((plug bolt screw) with (solid hollow))	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/11 16:30
S87	1722	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/11 16:30
S88	11	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((plug bolt screw) with (solid hollow))	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/11 16:32
S89	4347	(chamber with (interface insert face surface)) and ((plug bolt screw) with (solid hollow))	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:34
S90	698	(chamber with (interface insert face surface)) same ((plug bolt screw) with (solid hollow))	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:34
S91	76	(chamber with (interface insert)) same ((plug bolt screw) with (solid hollow))	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:38
S92	398	(plug bolt) with (solid hollow) with (heat)	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:38
S93	225	(plug bolt) with (hollow) with (heat)	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:38
S94	21	(plug bolt) with (hollow) with (heat) with transfer	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:41
S95	98	(plug bolt) with (solid) with (strength)	US-PGPUB; USPAT	OR	OFF	2003/06/11 16:41
S96	1	("6045620").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/12 11:01
S97	1725	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/12 11:03
S98	9	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (hollow with (screw plug bolt))	US-PGPUB; USPAT	OR	ON	2003/06/12 11:05

EAST Search History

S99	19281	(hollow with (screw plug bolt))	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:05
S100	460	(hollow with (screw plug bolt) with insulat\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:06
S101	0	(hollow with (screw plug bolt) with insulat\$3 with solid with (strength strong))	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:06
S102	4	(hollow with (screw plug bolt) with insulat\$3 with solid)	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:07
S103	21	(hollow with (screw plug bolt) with insulat\$3 with (attach\$3 affix\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:21
S104	292	(hollow with (screw plug bolt) with align\$4)	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:21
S105	0	(hollow with (screw plug bolt) with align\$4) and c23c016\$.ipc.	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:21
S106	2548520	(hollow with (screw plug bolt) with align\$4 mount\$3 attach\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:22
S107	47	(hollow with (screw plug bolt) with align\$4 with (mount\$3 attach\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:38
S108	43	(hollow with (Pin dowel) with align\$4 with (mount\$3 attach\$3))	EPO; JPO; DERWENT	OR	ON	2003/06/12 11:39
S109	1725	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/06/12 16:45
S110	326	(hollow with (Pin dowel) with align\$4 with (mount\$3 attach\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 14:13
S111	0	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((hollow with (Pin dowel) with align\$4 with (mount\$3 attach\$3)))	US-PGPUB; USPAT	OR	ON	2003/06/12 14:13
S112	33	(hollow with (Pin dowel) with (plug bolt) with align\$4 with (mount\$3 attach\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 15:20
S113	238	(load with bearing with plug)	US-PGPUB; USPAT	OR	ON	2003/06/12 15:25
S114	8	(load with bearing with plug with hollow)	US-PGPUB; USPAT	OR	ON	2003/06/12 15:20
S115	7021	((hollow) with (pin plug bolt dowel) with (align\$4 position\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 15:29
S116	1417	((hollow) with (pin plug bolt dowel) with (align\$4 position\$3) with (mount\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 15:37
S117	201	"411"/\$.ccls. and ((hollow) with (pin plug bolt dowel fastener) with (align\$4 position\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 15:40
S118	15	"4289061".URPN.	USPAT	OR	ON	2003/06/12 16:02

EAST Search History

S11 9	52	(US-6089543-\$ or US-6506254-\$ or US-6263829-\$ or US-6280584-\$ or US-6347918-\$ or US-5997588-\$ or US-6200415-\$ or US-6099651-\$ or US-5846332-\$ or US-5746434-\$ or US-5844195-\$ or US-5919310-\$ or US-5965034-\$ or US-5693288-\$ or US-5640751-\$ or US-5456757-\$ or US-5415729-\$ or US-5562800-\$ or US-5601686-\$ or US-5172849-\$ or US-5266116-\$ or US-5310338-\$ or US-5382531-\$ or US-6045620-\$ or US-5016562-\$ or US-4685193-\$).did. or (US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4480585-\$ or US-4616860-\$ or US-4622918-\$ or US-4116419-\$ or US-4257447-\$ or US-4438724-\$ or US-3731651-\$ or US-3618919-\$ or US-3994428-\$ or US-3602192-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$).did. or (US-20020014203-\$ or US-20020079056-\$ or US-20020195201-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$ or IL-127765-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/12 16:40
S12 0	10	((US-6089543-\$ or US-6506254-\$ or US-6263829-\$ or US-6280584-\$ or US-6347918-\$ or US-5997588-\$ or US-6200415-\$ or US-6099651-\$ or US-5846332-\$ or US-5746434-\$ or US-5844195-\$ or US-5919310-\$ or US-5965034-\$ or US-5693288-\$ or US-5640751-\$ or US-5456757-\$ or US-5415729-\$ or US-5562800-\$ or US-5601686-\$ or US-5172849-\$ or US-5266116-\$ or US-5310338-\$ or US-5382531-\$ or US-6045620-\$ or US-5016562-\$ or US-4685193-\$).did. or (US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4480585-\$ or US-4616860-\$ or US-4622918-\$ or US-4116419-\$ or US-4257447-\$ or US-4438724-\$ or US-3731651-\$ or US-3618919-\$ or US-3994428-\$ or US-3602192-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$).did. or (US-20020014203-\$ or US-20020079056-\$ or US-20020195201-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$ or IL-127765-\$).did.) and polymer\$3	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/12 17:04
S12 1	5	((((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (insulat\$3 with (gel porous)))	US-PGPUB; USPAT	OR	ON	2003/06/12 16:47
S12 2	55	("118"/\$.ccls. 156/345.\$.ccls.) and ((insert interface) with (gel porous))	US-PGPUB; USPAT	OR	ON	2003/06/12 16:56
S12 3	4	("118"/\$.ccls. 156/345.\$.ccls.) and ((insert interface) with (gel porous) with (insulat\$3 isolat\$3 separat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 16:51
S12 4	1787	((insert interface) with (gel porous) with (insulat\$3 isolat\$3 separat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 16:52
S12 5	0	("c23c016\$.ipc. and((gelporous)with(insulat\$isolat\$3separat\$3))").PN.	USOCR; EPO; JPO; DERWENT	OR	OFF	2003/06/12 16:58
S12 6	104	c23c016\$.ipc. and ((gel porous) with (insulat\$ isolat\$3 separat\$3))	US-PGPUB; USPAT	OR	ON	2003/06/12 16:58

EAST Search History

S12 7	5	((US-6089543-\$ or US-6506254-\$ or US-6263829-\$ or US-6280584-\$ or US-6347918-\$ or US-5997588-\$ or US-6200415-\$ or US-6099651-\$ or US-5846332-\$ or US-5746434-\$ or US-5844195-\$ or US-5919310-\$ or US-5965034-\$ or US-5693288-\$ or US-5640751-\$ or US-5456757-\$ or US-5415729-\$ or US-5562800-\$ or US-5601686-\$ or US-5172849-\$ or US-5266116-\$ or US-5310338-\$ or US-5382531-\$ or US-6045620-\$ or US-5016562-\$ or US-4685193-\$).did. or (US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4480585-\$ or US-4616860-\$ or US-4622918-\$ or US-4116419-\$ or US-4257447-\$ or US-4438724-\$ or US-3731651-\$ or US-3618919-\$ or US-3994428-\$ or US-3602192-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$).did. or (US-20020014203-\$ or US-20020079056-\$ or US-20020195201-\$).did. or (US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or DE-3309079-\$ or IL-127765-\$).did.) and (pore porous gel)	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/12 17:11
S12 8	42	(chamber with (insert interface) with gel)	US-PGPUB; USPAT; DERWENT	OR	OFF	2003/06/12 17:43
S12 9	31	(chamber with (insert interface) with gel)	US-PGPUB; USPAT	OR	OFF	2003/06/12 17:32
S13 0	1	(chamber with (transfer\$3 transport\$3)) and ((insert interface) with gel)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 17:44
S13 1	2	c23c016\$.ipc. and ((insulat\$3) with gel)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 17:45
S13 2	442	((insulat\$3) with gel with material)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 17:47
S13 3	196	((insulat\$3) with (heat\$3 thermal\$4) with gel with material)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 18:22
S13 4	2983	((insulat\$3) with (heat\$3 thermal\$4) with glass with material)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 18:22
S13 5	11	c23c016\$.ipc. and ((insulat\$3) with (heat\$3 thermal\$4) with glass with material)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 18:25
S13 6	61	((insulat\$3) with (heat\$3 thermal\$4) with (combin\$3 combination mixture) with ((liquid and gas) (solid and liquid) (gas and solid)))	EPO; JPO; DERWENT	OR	OFF	2003/06/12 18:51
S13 7	108	((insulat\$3) with (heat\$3 thermal\$4) with (combin\$3 combination mixture) with ((liquid and gas) (solid and liquid) (gas and solid)))	US-PGPUB; USPAT	OR	OFF	2003/06/12 18:56
S13 8	14	((insulat\$3) with (heat\$3 thermal\$4) with multiple with phase)	US-PGPUB; USPAT	OR	OFF	2003/06/12 18:56
S13 9	5	((insulat\$3) with (heat\$3 thermal\$4) with multiple with phase)	EPO; JPO; DERWENT	OR	OFF	2003/06/12 18:57
S14 0	14	((insulat\$3) with (heat\$3 thermal\$4) with multiple with phase)	US-PGPUB; USPAT	OR	OFF	2003/06/12 18:57
S14 1	1	1996-146849.NRAN.	DERWENT	OR	OFF	2003/06/13 09:47
S14 2	2	"08034678"	EPO; JPO; DERWENT	OR	ON	2003/06/13 09:53
S14 3	2	"2001261375"	EPO; JPO; DERWENT	OR	ON	2003/06/13 09:53
S14 4	13	(screw rivet bolt) with (attach\$3 mount\$3) with (compression) with strength	US-PGPUB; USPAT	OR	ON	2003/06/13 12:51
S14 5	18	(screw rivet bolt) with (greater) with (compression) with strength	US-PGPUB; USPAT	OR	ON	2003/06/13 12:51
S14 6	2	(screw rivet bolt) with (greater) with (compression) with strength	EPO; JPO; DERWENT	OR	ON	2003/06/13 13:18

EAST Search History

S14 7	10	(screw rivet bolt) with (attach\$3 mount\$3) with (compression) with strength	EPO; JPO; DERWENT	OR	ON	2003/06/13 13:19
S14 8	94	(screw rivet bolt) with (compression) with strength	EPO; JPO; DERWENT	OR	ON	2003/06/13 13:19
S14 9	19	(screw rivet bolt) with "compression strength"	EPO; JPO; DERWENT	OR	ON	2003/06/13 13:23
S15 0	61	(screw rivet bolt plug) with "compression strength"	US-PGPUB; USPAT	OR	ON	2003/06/13 14:05
S15 1	49	(attach\$3 mount\$3) with "compression strength"	US-PGPUB; USPAT	OR	ON	2003/06/13 13:53
S15 2	46	((attach\$3 mount\$3) with "compression strength") not ((screw rivet bolt plug) with "compression strength")	US-PGPUB; USPAT	OR	ON	2003/06/13 13:53
S15 3	4433	"compression strength"	US-PGPUB; USPAT	OR	ON	2003/06/13 14:06
S15 4	83	"compression strength" with greater	EPO; JPO; DERWENT	OR	ON	2003/06/13 14:09
S15 5	0	"compression strength" with "stainless steel" with (mount\$3 attach\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 14:10
S15 6	10	"compression strength" with "stainless steel"	EPO; JPO; DERWENT	OR	ON	2003/06/13 14:10
S15 7	16	"compression strength" with "stainless steel"	US-PGPUB; USPAT	OR	ON	2003/06/13 14:12
S15 8	259	"compression strength" with greater	US-PGPUB; USPAT	OR	ON	2003/06/13 15:18
S15 9	32	"compression strength" with (attach\$3 mount\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 15:54
S16 0	49	"compression strength" with (attach\$3 mount\$3)	US-PGPUB; USPAT	OR	ON	2003/06/13 15:49
S16 1	19	"compression strength" with (deform\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:04
S16 2	13	compress\$3 with (strength strong) with (deform\$3) with (bolt screw connector plug rivet)	EPO; JPO; DERWENT	OR	ON	2003/06/13 15:58
S16 3	13	compress\$3 with (strength strong) with (deform\$3) with (bolt screw connector plug rivet)	EPO; JPO; DERWENT	OR	ON	2003/06/13 15:58
S16 4	18	compress\$3 with (strength strong) with (deform\$3) with (bolt screw connector plug rivet)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:05
S16 5	1101	compress\$3 with (deform\$3) with (bolt screw connector plug rivet)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:04
S16 6	423	compress\$3 with (deform\$3) with (bolt screw connector plug rivet)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:04
S16 7	1	"compression strength" with (deform\$3) with (bolt screw connector plug rivet)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:08
S16 8	1	"compression strength" with (deform\$3) with (bolt screw connector plug rivet)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:20
S16 9	0	"compression strength" with prevent\$3 with (deform\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:09
S17 0	3	"compression strength" with prevent\$3 with (deform\$3)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:08
S17 1	19	"compression strength" with (deform\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:10
S17 2	19	"compression strength" with (deform\$3)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:10
S17 3	37	"compression strength" with (deform\$3)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:14

EAST Search History

S17 4	23	"compression strength" with (bolt screw connector plug rivet)	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:21
S17 5	66	"compression strength" with (bolt screw connector plug rivet)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:26
S17 6	80	(US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5415729-\$ or US-5266116-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-3618919-\$ or US-5919310-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5143348-\$ or US-5020776-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$).did. or (US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6089543-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5288190-\$ or US-6468610-\$ or US-4271238-\$ or US-5230200-\$).did. or (US-3728472-\$ or US-5390466-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/06/13 16:43
S17 7	3	((US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5415729-\$ or US-5266116-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-3618919-\$ or US-5919310-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5143348-\$ or US-5020776-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$).did. or (US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6089543-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5288190-\$ or US-6468610-\$ or US-4271238-\$ or US-5230200-\$).did. or (US-3728472-\$ or US-5390466-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.) and ((interface insert) with (width cross\$1section))	US-PGPUB; USPAT	OR	ON	2003/06/13 16:52
S17 8	1	"5640751".URPN.	USPAT	OR	ON	2003/06/13 16:47
S17 9	7	("2255504" "2926937" "3208758" "3370508" "4616860" "4685193" "5094795").PN.	USPAT	OR	ON	2003/06/13 16:48

EAST Search History

S18 0	281	("118"/\$.ccls. "414"/\$.ccls. 156/345.\$.ccls.) and ((interface insert) with (width cross\$1section))	US-PGPUB; USPAT	OR	ON	2003/06/13 17:16
S18 1	8	(c23c016\$.ipc.) and ((interface insert) with (width cross\$1section))	EPO; JPO; DERWENT	OR	ON	2003/06/13 16:53
S18 2	38	("118"/\$.ccls. "414"/\$.ccls. 156/345.\$.ccls.) and (((interface insert) with (width cross\$1section)) same chamber)	US-PGPUB; USPAT	OR	ON	2003/06/13 16:55
S18 3	38	((US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5415729-\$ or US-5266116-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-3618919-\$ or US-5919310-\$ or US-5382531-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5143348-\$ or US-5020776-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$).did. or (US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-6089543-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5288190-\$ or US-6468610-\$ or US-4271238-\$ or US-5230200-\$).did. or (US-3728472-\$ or US-5390466-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.)) and ((width cross\$1section))	US-PGPUB; USPAT	OR	ON	2003/06/13 17:17
S18 4	80	(US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5266116-\$ or US-5415729-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-5382531-\$ or US-3618919-\$).did. or (US-5919310-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$ or US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6089543-\$ or US-3728472-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5390466-\$ or US-5288190-\$ or US-6468610-\$).did. or (US-5230200-\$ or US-4271238-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:25

EAST Search History

S18 5	38	((US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5266116-\$ or US-5415729-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-5382531-\$ or US-3618919-\$).did. or (US-5919310-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$ or US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6089543-\$ or US-3728472-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5390466-\$ or US-5288190-\$ or US-6468610-\$).did. or (US-5230200-\$ or US-4271238-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.) and (deep depth inch inches cm centimeters)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:29
S18 6	17	((US-6045620-\$ or US-6500299-\$ or US-6099651-\$ or US-6280584-\$ or US-6200415-\$ or US-5456757-\$ or US-6506254-\$ or US-6263829-\$ or US-5965034-\$ or US-5846332-\$ or US-5844195-\$ or US-3731651-\$ or US-5997588-\$ or US-5746434-\$ or US-5562800-\$ or US-3602192-\$ or US-5693288-\$ or US-5601686-\$ or US-5266116-\$ or US-5415729-\$ or US-5172849-\$ or US-4622918-\$ or US-4480585-\$ or US-4438724-\$ or US-5382531-\$ or US-3618919-\$).did. or (US-5919310-\$ or US-5310338-\$ or US-6347918-\$ or US-5640751-\$ or US-5020776-\$ or US-5143348-\$ or US-4674939-\$ or US-4257447-\$ or US-4116419-\$ or US-4685193-\$ or US-4616860-\$ or US-5016562-\$ or US-3994428-\$ or US-6089543-\$ or US-3728472-\$ or US-5186137-\$ or US-3568920-\$ or US-4289061-\$ or US-4289060-\$ or US-5178502-\$ or US-6162298-\$ or US-5943876-\$ or US-5626936-\$ or US-4961781-\$ or US-5390466-\$ or US-5288190-\$ or US-6468610-\$).did. or (US-5230200-\$ or US-4271238-\$).did. or (US-20020195201-\$ or US-20020079056-\$ or US-20020014203-\$ or US-20020078711-\$).did. or (EP-477857-\$ or JP-08034678-\$). did. or (JP-2001082682-\$ or JP-04137372-\$ or JP-04080030-\$ or JP-04053110-\$ or JP-61268756-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (US-20020195201-\$ or EP-606263-\$ or EP-367289-\$ or DE-3309079-\$ or IL-127765-\$ or JP-08034678-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.) and (deep depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:26
S18 7	1752	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/08/10 18:29
S18 8	0	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((deep depth) with insert)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 18:30

EAST Search History

S18 9	0	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((inches centimeter) with insert)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:37
S19 0	0	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((inch centimeter) with insert)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:30
S19 1	6	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((inch centimeter) with deep)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:31
S19 2	0	(c23co16\$.ipc.) and ((deep depth) with insert)	EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:35
S19 3	0	(c23co16\$.ipc.) and ((deep depth measur\$4 inch inches "cm" centimeter) with insert)	EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:36
S19 4	142	(semiconductor wafer substrate) same ((deep depth) with insert)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:44
S19 5	19	118/719.ccls. and (transfer with chamber) and (buffer with gas)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:47
S19 6	38	118/719.ccls. and (transfer with chamber) and (buffer with between)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 17:48
S19 7	38	118/719.ccls. and (transfer with chamber) and (buffer with between)	US-PGPUB; USPAT	OR	OFF	2003/08/10 17:56
S19 8	91	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (distance with chamber with between)	US-PGPUB; USPAT	OR	OFF	2003/08/10 17:56
S19 9	243	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (buffer)	US-PGPUB; USPAT	OR	ON	2003/08/10 18:17
S20 0	142	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (buffer) and (transfer with chamber)	US-PGPUB; USPAT	OR	ON	2003/08/10 18:26
S20 1	16	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (buffer with (clean\$3 purg\$3))	US-PGPUB; USPAT	OR	ON	2003/08/10 18:27
S20 2	224	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((deep depth))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 18:30
S20 3	224	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((deep depth))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 18:31
S20 4	31	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and (transfer\$4 same (deep depth))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 18:31
S20 5	16	("4948979") or ("5076205") or ("5364219") or ("5445491") or ("5592581") or ("5820461") or ("5827370") or ("6174366") or ("6178660") or ("6192827") or ("6193802") or ("6194628") or ("6197119") or ("6255222") or ("6541353") or ("20020185067") or ("10132003") or ("10132767") or ("10365085").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/01/23 16:37
S20 6	1	("5223113").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/01/23 16:54

EAST Search History

S20 7	8	"5223113".URPN.	USPAT	OR	ON	2004/01/23 16:40
S20 8	11	("4473437" "4491496" "4816638" "4817558" "4838978" "4878995" "4886565" "4931135" "4943361" "5078851" "5085750").PN.	USPAT	OR	ON	2004/01/23 16:42
S20 9	1839	((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/01/23 16:54
S21 0	92	((((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.) and ((ceramic insulat\$3) with (insert valve gate door)))	US-PGPUB; USPAT	OR	ON	2004/01/23 16:57
S21 1	2	("5044311" "5772833").PN.	USPAT	OR	ON	2004/01/23 17:17
S21 2	0	"6673196".URPN.	USPAT	OR	ON	2004/01/23 17:17
S21 5	1	("6800172").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/25 13:35
S21 6	1	("6089543").PN.	US-PGPUB; USPAT	OR	OFF	2005/03/25 13:53
S21 7	0	karla and moore and (voltage with isolat\$3 with interface)	US-PGPUB; USPAT	OR	ON	2005/04/13 20:59
S21 8	1	karla and moore and (voltage with isolat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 21:00
S21 9	9	("20010032591" "20020185067" "4117323" "5928426" "6030486" "6206971" "6214161" "6471822" "6571821").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/13 21:01
S22 0	1	("6571821").URPN.	USPAT	OR	ON	2005/04/13 21:08
S22 1	5	("3773068" "4722365" "5901558" "5942038" "6007634").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/13 21:18
S22 2	936	(137/375).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/13 21:26
S22 3	445	118/733.ccls.	US-PGPUB; USPAT	OR	ON	2005/04/13 21:27
S22 4	2	S222 and S223	US-PGPUB; USPAT	OR	ON	2005/04/13 21:26
S22 5	141	118/733.ccls. and (insulat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 21:27
S22 6	2185	((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/13 21:35
S22 7	2	S226 and (pump with (valve slot gate) with insulat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 22:15
S22 8	7	S226 and (pump with (chamber) with insulat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 21:38
S22 9	3	(118/715-733.ccls. and 156/345\$.ccls.) and (pump with (valve slot gate) with insulat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 21:39
S23 0	11	(118/715-733.ccls. and 156/345\$.ccls.) and (pump with (chamber) with insulat\$3)	US-PGPUB; USPAT	OR	ON	2005/04/13 22:10
S23 1	0	pinarbas.in.	US-PGPUB; USPAT	OR	ON	2005/04/13 22:10
S23 2	138	pinarbasi.in.	US-PGPUB; USPAT	OR	ON	2005/04/13 22:11
S23 3	104	pinarbasi.in. and sputter\$3	US-PGPUB; USPAT	OR	ON	2005/04/13 22:11

EAST Search History

S23 4	6	S226 and (pump with insulat\$3 with (thermal\$4 heat\$4 temperature))	US-PGPUB; USPAT	OR	ON	2005/04/13 22:18
S23 5	4	S226 and (pump with isolat\$3 with (thermal\$4 heat\$4 temperature))	US-PGPUB; USPAT	OR	ON	2005/04/13 22:18
S23 6	42	("4920918").URPN.	USPAT	OR	ON	2005/04/13 22:34
S23 7	7	("5695567").URPN.	USPAT	OR	ON	2005/04/13 22:38
S23 8	22	("3095494" "3098763" "3138435" "3282814" "3304908" "3372671" "4147571" "4263872" "4339645" "4421592" "4421786" "4805556" "4920918" "5119540" "5136975" "5194406").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/13 22:39
S23 9	13	("5359148").URPN.	USPAT	OR	ON	2005/04/13 22:52
S24 0	0	("6375194").URPN.	USPAT	OR	ON	2005/04/13 22:57
S24 1	31	("1047063" "1109042" "2509119" "3284107" "3332710" "3499670" "3544138" "3746348" "3775832" "3794361" "4375290" "4432572" "4557609" "4583749" "4627646" "4900063" "5011196" "5163692" "5359148" "5722667" "5777300" "5824909" "5879789" "6022052").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/13 22:57
S24 2	9	("3828722" "4347431" "4699084" "4711197" "4793283" "4803948" "4920920" "5064367").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/14 13:28
S24 3	1	("6800172").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/14 13:28
S24 4	3	carpenter-craig.in. dando-ross.in. mardian-allen.in. hamer-kevin.in. cantin-raynald.in. campbell-phillip.in. tschepen-kimberly.in. mercil-randy.in.	US-PGPUB; USPAT	OR	ON	2006/12/21 19:48
S24 6	55	156/345.29.ccls. and ((insulat\$4 isolat\$4) with (heat\$3 temperature thermal\$4))	US-PGPUB; USPAT	OR	ON	2005/04/18 16:23
S24 7	96	118/733.ccls. and ((insulat\$4 isolat\$4) with (heat\$3 temperature thermal\$4))	US-PGPUB; USPAT	OR	ON	2005/04/18 16:23
S24 8	458	"216"/\$.ccls. and "MEMS"	US-PGPUB; USPAT	OR	ON	2005/04/18 18:10
S24 9	4	method with toner with electrophotographic	US-PGPUB; USPAT	OR	ON	2005/04/19 11:06
S25 0	38	(method with toner) and electrophotographic	US-PGPUB; USPAT	OR	ON	2005/04/19 11:09
S25 1	0	"stachowski-mark.in"	US-PGPUB; USPAT	OR	ON	2005/04/19 11:09
S25 2	0	stachowski-mark.in.	US-PGPUB; USPAT	OR	ON	2005/04/19 11:10
S25 3	0	blair-stewart.in.	US-PGPUB; USPAT	OR	ON	2005/04/19 11:10
S25 4	5.	((("5884009") or ("6111225") or ("6814813") or ("5484483") or ("20050028734"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/15 04:39
S25 5	1977	load with bear\$3 with (bolt plug)	US-PGPUB; USPAT	OR	ON	2005/11/11 14:55
S25 6	3	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove) with (prevent\$3 prohibit\$3) with (rotat\$4)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:35
S25 7	17	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove) with (rotat\$4)	US-PGPUB; USPAT	OR	ON	2005/11/11 14:57
S25 8	102	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove)	US-PGPUB; USPAT	OR	ON	2005/11/11 14:58

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S25 9	24	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove) with (attach\$3 mount\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 14:58
S26 0	26	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove) with (attach\$4 mount\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 15:06
S26 1	72	(bolt plug) with (protuberance projection ridge groove) with (immobil\$7)	US-PGPUB; USPAT	OR	ON	2005/11/11 15:06
S26 2	29	(bolt plug) with (protuberance projection ridge) with (immobil\$7)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:25
S26 3	16	(bolt plug) with (protuberance projection ridge) with (immobil\$7)	EPO; JPO; DERWENT	OR	ON	2005/11/11 16:24
S26 4	29	(bolt plug) with (protuberance projection ridge) with (immobil\$7)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:25
S26 5	1898	(bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:27
S26 6	479	(bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3) with rotat\$4	US-PGPUB; USPAT	OR	ON	2005/11/11 16:27
S26 7	130	(bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3) with rotat\$4	EPO; JPO; DERWENT	OR	ON	2005/11/11 16:28
S26 8	235	(bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4	EPO; JPO; DERWENT	OR	ON	2005/11/11 16:28
S26 9	643	(bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4	US-PGPUB; USPAT	OR	ON	2005/11/11 16:29
S27 0	299	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:29
S27 1	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 stron\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:30
S27 2	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:35
S27 3	3	load with bear\$3 with (bolt plug) with (protuberance projection ridge groove) with (prevent\$3 prohibit\$3) with (rotat\$4)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:35
S27 4	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 16:46
S27 5	117	moore-karla.xa.	US-PGPUB; USPAT	OR	ON	2005/11/11 16:36
S27 6	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/11 17:02
S27 7	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:13
S27 8	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:12
S27 9	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:13
S28 0	5	((bolt plug) with (protuberance projection ridge) with (prohibit\$3 prevent\$4 preclud\$3 fix\$3) with rotat\$4) same (mount\$3 attach\$4 connect\$4) same (strength\$5 strong\$3)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:13
S28 1	102	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCL5.) and (interface)and applied.as.	US-PGPUB; USPAT	OR	ON	2005/11/14 15:13
S28 2	19668	(bolt plug) with (protuberance projection ridge)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:14

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S28 3	48	(bolt plug) with (protuberance projection ridge) with placement	US-PGPUB; USPAT	OR	ON	2005/11/14 15:22
S28 4	462	(bolt plug) with (protuberance projection ridge) with (prevent\$3 prohibit\$3) with rotat\$4	US-PGPUB; USPAT	OR	ON	2005/11/14 15:23
S28 5	47	(bolt plug) with (protuberance projection ridge) with (prevent\$3 prohibit\$3) with rotat\$4 with longitudinal	US-PGPUB; USPAT	OR	ON	2005/11/14 15:23
S28 6	52	(bolt plug) with (protuberance projection ridge) with (prevent\$3 prohibit\$3) with rotat\$4 with longitudinal\$4	US-PGPUB; USPAT	OR	ON	2005/11/14 15:42
S28 7	68	(411/529).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/14 15:49
S28 8	147	"411"/\$.ccls. and threadless	US-PGPUB; USPAT	OR	ON	2005/11/14 15:45
S28 9	1	"411"/\$.ccls. and (threadless with (protuberane ridge projection))	US-PGPUB; USPAT	OR	ON	2005/11/14 15:45
S29 0	29	"411"/\$.ccls. and threadless and ((prevent\$3 prohibit\$3) with rotat\$4)	US-PGPUB; USPAT	OR	ON	2005/11/14 15:46
S29 1	26	(411/451.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/14 16:01
S29 2	32	("1989018" "2219197" "2223871" "2251202" "3510979" "3550244" "3689075" "3791750" "3883258" "3942407" "3964879" "3966339" "4087928" "4340330" "4454669" "4650373" "4666345" "4762454" "4893973" "5192169" "5195859" "5252017" "5549431" "5688066" "5931619" "6254301").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/14 15:52
S29 3	159	(411/452).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/14 16:03
S29 4	4	S293 and (mate mating interlock\$3)	US-PGPUB; USPAT	OR	ON	2005/11/14 16:03
S29 5	2	("3964879").URPN.	USPAT	OR	ON	2005/11/14 16:05
S29 6	2392	((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/05/26 15:41
S29 7	14	S296 and ((liner shield) with (mov\$5 translat\$5) with seal\$3)	US-PGPUB; USPAT	OR	ON	2006/05/26 16:00
S29 8	1	("6814813").URPN.	USPAT	OR	ON	2006/05/26 15:44
S29 9	2	("4611110" "4735421").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 15:46
S30 0	7	("5415729").URPN.	USPAT	OR	ON	2006/05/26 15:48
S30 1	0	S296 and ((liner shield) with (bowl sub\$1chamber) with seal\$3)	US-PGPUB; USPAT	OR	ON	2006/05/26 16:00
S30 2	6	S296 and ((liner shield) with (bowl sub\$1chamber))	US-PGPUB; USPAT	OR	ON	2006/05/26 16:00
S30 3	1	("2003/0200926").URPN.	USPAT	OR	ON	2006/05/26 16:06
S30 4	5	("20020102858" "5948704" "6277237" "6403491" "6527865").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:07
S30 5	5	("5843847" "5870271" "5888309" "6165910" "6230651").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:11
S30 6	12	("6403491").URPN.	USPAT	OR	ON	2006/05/26 16:13

EAST Search History

S30 7	46	("20020185067" "20020195201" "3618919" "4289061" "4438724" "4545136" "4871417" "4948979" "4949669" "5076205" "5172849" "5223113" "5364219" "5445491" "5562800" "5592581" "5626936" "5640751" "5693288" "5746434" "5769952" "5820641" "5827370" "5940684" "5997588" "6016611" "6045620" "6089543" "6174366" "6178660" "6192827" "6193802" "6194628" "6197119" "6200415" "6255222" "6263829" "6280584" "6309161" "6347918" "6506254" "6541353" "6562141" "6602346" "6638672" "6673196").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:15
S30 8	3	("6309161").URPN.	USPAT	OR	ON	2006/05/26 16:20
S30 9	4	("5944857" "6042623" "6048154" "6059507").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:22
S31 0	7326	(shield liner) with (cover\$3 protect prevent\$4) with ((side sidewall perimeter inner) with (lower bottom base floor))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:26
S31 1	1189	S310 and (substrate wafer semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:24
S31 2	69	S310 same ((substrate wafer semiconductor) with (transfer\$4 translat\$4 convey\$4 moving move movable moveable enter entry entrance passage passageway slot slit))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:34
S31 3	1397	(shield liner) with (cover\$3 protect prevent\$4) with ((side sidewall perimeter inner) with (lower bottom base floor))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 16:26
S31 4	13	S313 and ((substrate wafer semiconductor) with (transfer\$4 translat\$4 convey\$4 moving move movable moveable enter entry entrance passage passageway slot slit))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 16:26
S31 5	331	movable with (chamber reactor) with (liner shield) with (whole opening port passage passageway)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:50
S31 6	16	S315 same (substrate wafer semiconductor workpiece)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:35
S31 7	43	S315 and (substrate wafer semiconductor workpiece)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:35
S31 8	5	("5472509").URPN.	USPAT	OR	ON	2006/05/26 16:37
S31 9	10	("4960488" "5085727" "5089441" "5174858" "5252892" "5366585" "5472509" "5552124" "5578131" "5647913").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:40
S32 0	84	("5788799").URPN.	USPAT	OR	ON	2006/05/26 16:41
S32 1	526	(translat\$4 movable moving) with (chamber reactor) with (liner shield) with (whole opening port passage passageway)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:50
S32 2	291	(translat\$4 movable moveable moving displac\$4) with (chamber reactor) with (liner shield) with (whole opening port passage passageway) with (seal\$3 clos\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 16:51

EAST Search History

S32 3	240	("20010000866" "20010002280" "20010009140" "20010009695" "20010011526" "20010024387" "20010028924" "20010029094" "20010031562" "20010034123" "20010041250" "20010042799" "20010054730" "20010054769" "20020000598" "20020004293" "20020007790" "20020016084" "20020019121" "20020031618" "20020037630" "20020047151" "20020048880" "20020052097" "20020055235" "20020061612" "20020068458" "20020073924" "20020076481" "20020076507" "20020076508" "20020076837" "20020090829" "20020094689" "20020104481" "20020105088" "20020106846" "20020109168" "20020117399" "20020121697" "20020144655" "20020144657" "20020146511" "20020155722" "20020162506" "20020164421" "20020164423" "20020182320" "20020187256" "20020187631" "20020197402" "20030013320" "20030031807" "20030032281" "20030049942" "20030072975" "20030082296" "4058430" "4389973" "4413022" "4486487" "4767494" "4806321" "4813846" "4829022" "4834831" "4838983" "4838993" "4840921" "4845049" "4859307" "4859627" "4861417" "4876218" "4917556" "4927670" "4931132" "4951601" "4960720" "4975252" "4993357" "5000113" "5013683" "5028565" "5082798" "5085885" "5091320" "5130269" "5166092" "5173474" "5186718" "5205077" "5225366" "5234561" "5246536" "5250148" "5254207" "5256244" "5259881" "5270247" "5278435" "5281274" "5286296" "5290748" "5294286" "5296403").PN. OR ("5300186" "5306666" "5311055" "5316615" "5316793" "5330610" "5336324" "5338389" "5348911" "5374570" "5395791" "5438952" "5439876" "5441703" "5443033" "5443647" "5455072" "5458084" "5469806" "5480818" "5483919" "5484664" "5503875" "5521126" "5527733" "5532511" "5540783" "5580380" "5601651" "5609689" "5616181" "5637530" "5641984" "5644128" "5667592" "5674786" "5693139" "5695564" "5705224" "5707880" "5711811" "5730801" "5730802" "5747113" "5749974" "5788447" "5788799" "5796116" "5801634" "5807792" "5830270" "5835677" "5851849" "5855675" "5855680" "5856219" "5858102" "5866213" "5866795" "5879459" "5882165" "5882413" "5904565" "5916365" "5923056" "5923985" "5925574" "5928389" "5942040" "5947710" "5972430" "6001669" "6015590" "6025627" "6036773" "6042652" "6043177" "6051286" "6062798" "6071808" "6084302" "6086677" "6110556" "6113977" "6117244" "6124158" "6130147" "6139700" "6140237" "6140238" "6143659" "6144060" "6158446" "6174377" "6174809" "6200893" "6203613" "6206967" "6207302" "6207487" "6248605" "6270572" "6271148" "6284646" "6287965" "6291876" "6305314" "6306216" "6316098" "6333260" "6342277" "6355561" "6358829" "6368954" "6369430" "6372598" "6391785" "6391803" "6399491" "6416822" "6420189" "6423619" "6428859" "6447933" "6451695").PN. OR ("6468924" "6475276" "6475910" "6482262" "6482733" "6482740" "6511539" "6534395" "6599572").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:07
S32 4	2	("6833161").URPN.	USPAT	OR	ON	2006/05/26 17:07

EAST Search History

S32 5	28	("20020069970" "20020076490" "20020108571" "3656454" "4309961" "4318889" "4539933" "4565157" "4658513" "4690098" "4747368" "5046909" "5346513" "5368648" "5407485" "5497727" "5624499" "5788799" "5854468" "5855677" "5942038" "6001183" "6039811" "6086362" "6111225" "6192827" "6340501" "6442950").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:10
S32 6	28	("20020069970" "20020076490" "20020108571" "3656454" "4309961" "4318889" "4539933" "4565157" "4658513" "4690098" "4747368" "5046909" "5346513" "5368648" "5407485" "5497727" "5624499" "5788799" "5854468" "5855677" "5942038" "6001183" "6039811" "6086362" "6111225" "6192827" "6340501" "6442950").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:27
S32 7	0	("6902623").URPN.	USPAT	OR	ON	2006/05/26 17:27
S32 8	5	("5472509").URPN.	USPAT	OR	ON	2006/05/26 17:28
S32 9	16	("1758531" "3627663" "4137142" "4323030" "4402279" "4713107" "5151303" "5152839" "5180434" "5203924" "5266116" "5277751" "5304279" "5324362" "5364481").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:28
S33 0	0	("6503331").URPN.	USPAT	OR	ON	2006/05/26 17:33
S33 1	0	("6503331").URPN.	USPAT	OR	ON	2006/05/26 17:33
S33 2	9	("5447570" "5462603" "5525160" "5660673" "5676758" "5772773" "5928427" "5997651" "6051286").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:33
S33 3	15	("5660673").URPN.	USPAT	OR	ON	2006/05/26 17:37
S33 4	0	("6503331").URPN.	USPAT	OR	ON	2006/05/26 17:41
S33 5	15	("5660673").URPN.	USPAT	OR	ON	2006/05/26 17:48
S33 6	2	("4632719" "5213658").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/26 17:48

EAST Search History

S33 7	150	(US-20020079056-\$ or US-20020195201-\$ or US-20020014203-\$ or US-20020078711-\$ or US-20040007188-\$ or US-20030159780-\$ or US-20040182324-\$ or US-20030116280-\$ or US-20040144315-\$ or US-20030200926-\$ or US-20020102858-\$ or US-20020076490-\$ or US-20040083978-\$ or US-20040089240-\$ or US-20050051100-\$).did. or (US-5044311-\$ or US-4438724-\$ or US-4674939-\$ or US-3884099-\$ or US-3750519-\$ or US-3625444-\$ or US-4185536-\$ or US-5178502-\$ or US-6742976-\$ or US-5897401-\$ or US-3964879-\$ or US-1989018-\$ or US-5484483-\$ or US-4869440-\$ or US-4097168-\$ or US-4012884-\$ or US-4817557-\$ or US-1686468-\$ or US-1360344-\$ or US-6162298-\$ or US-3994428-\$ or US-6089543-\$ or US-6347918-\$ or US-5382531-\$ or US-5693288-\$ or US-5601686-\$).did. or (US-5310338-\$ or US-6280584-\$ or US-4257447-\$ or US-4116419-\$ or US-4289060-\$ or US-5855681-\$ or US-6045620-\$ or US-6500299-\$ or US-3602192-\$ or US-4462332-\$ or US-5456757-\$ or US-3618919-\$ or US-4616860-\$ or US-5143348-\$ or US-3731651-\$ or US-3728472-\$ or US-5844195-\$ or US-5562800-\$ or US-5788447-\$ or US-3568920-\$ or US-5415729-\$ or US-5965034-\$ or US-6093252-\$ or US-5016562-\$ or US-5266116-\$ or US-5640751-\$ or US-6200415-\$).did. or (US-5020776-\$ or US-5746434-\$ or US-4622918-\$ or US-6099651-\$ or US-5919310-\$ or US-5846332-\$ or US-5172849-\$ or US-6263829-\$ or US-5997588-\$ or US-4480585-\$ or US-5186137-\$ or US-6506254-\$ or US-4685193-\$ or US-4289061-\$ or US-5943876-\$ or US-4961781-\$ or US-5626936-\$ or US-5390466-\$ or US-5288190-\$ or US-6468610-\$ or US-5230200-\$ or US-4271238-\$ or US-6192827-\$ or US-6178660-\$ or US-4948979-\$ or US-5223113-\$ or US-5968274-\$).did. or (US-5540777-\$ or US-6602346-\$ or US-6800172-\$ or US-5370736-\$ or US-6673196-\$ or US-6746566-\$ or US-6571821-\$ or US-6749906-\$ or US-5630881-\$ or US-5359148-\$ or US-4508055-\$ or US-4855000-\$ or US-5533736-\$ or US-6375194-\$ or US-4920918-\$ or US-6063244-\$ or US-4803948-\$ or US-6814813-\$ or US-6111225-\$ or US-5884009-\$ or US-6613587-\$ or US-6277237-\$ or US-6403491-\$ or US-6309161-\$ or US-6241477-\$ or US-5472509-\$ or US-5788799-\$).did. or (US-6408786-\$ or US-6833161-\$ or US-6902623-\$ or US-6503331-\$ or US-5660673-\$ or US-6544380-\$ or US-6647918-\$).did. or (EP-477857-\$).did. or (JP-04053110-\$ or JP-04080030-\$ or JP-2001082682-\$ or JP-61268756-\$ or JP-04137372-\$ or JP-55108428-\$ or JP-08034678-\$).did. or (JP-08034678-\$ or DE-3309079-\$ or US-20020195201-\$ or EP-367289-\$ or EP-606263-\$ or IL-127765-\$ or JP-07119889-\$ or EP-477857-\$ or JP-63256460-\$ or SU-937408-\$ or JP-2001261375-\$ or JP-09086943-\$ or US-5230200-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/26 18:38
S33 8	36	S337 and (seal\$3 with (shield\$3 cover lin\$3))	US-PGPUB; USPAT	OR	ON	2006/05/26 18:45
S33 9	1	10/695,726	US-PGPUB; USPAT	OR	ON	2006/05/30 14:25
S34 0	1	("2004/0089240").URPN.	USPAT	OR	ON	2006/05/30 16:41
S34 1	0	(10/189,111).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/21 14:53
S34 2	1	10/189,111	US-PGPUB; USPAT	OR	ON	2006/12/21 14:53
S34 3	94	("5788799").URPN.	USPAT	OR	ON	2006/12/21 16:16